

ecology and environment, inc.

101 YESLER WAY, SEATTLE, WASHINGTON, 93104, TEL. 206/624-9537

International Specialists in the Environment



DATE: December 13, 1988

TO: David Bennett, HWD, USEPA, Region X

THRU: Geffrey Villnow, FIT-OM, E&E, Seattle 996

FROM: Thomas Colligan, FIT-PM, E&E, Seattle

SUBJ: Preliminary HRS Score

American Tar Company Spokane, Washington

REF: TDD F10-8808-10

PAN FWA0594SA

CC: John Osborn, FIT-RPO, USEPA, Region X

A revised preliminary HRS score was computed for the American Tar Company site. The revision to the original score, submitted on November 17, 1988, was based on a consideration of seasonal rainfall in the Spokane area of +5.2 inches (measured from November 1 to April 30). This revision resulted in an HRS value of 2 for net precipitation and a concominant increase in the hazard migration mode score to 22.15 from 17.68.

TC:csr

Enclosures

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International Specialists in the Environment

MEMORANDUM

DATE: December 13, 1988

TO: John Osborn, FIT-RPO, USEPA, Region X

THRU: Jeffrey Villnow, FIT-OM, E&E, Seattle On

FROM: Thomas Colligan, FIT-PM, E&E, Seattle/C

SUBJ: Final Site Inspection Report

American Tar Company Spokane, Washington

REF: TDD F10-8808-10

PAN FWA0594SA

CC: Deborah Flood, HWD-SM, USEPA, Region X

Transmitted herewith are two (2) sets of revised pages for the American Tar Company Site Inspection Report incorporating EPA comments. This report will be considered final.

Please note that these revisions also resulted in a revision of the preliminary HRS score submitted on November 17, 1988. These revisions are addressed in separate memoranda.

TC:csr

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International Specialists in the Environment

MEMORANDUM

DATE: November 17, 1988

TO: David Bennett, HWD, USEPA, Region X

THRU: Jeffrey Villnow, FIT-OM, E&E, Seattle

FROM: Thomas Colligan, FIT-PM, E&E, Seattle 1

SUBJ: Preliminary HRS Score

American Tar Company Spokane, Washington

REF: TDD F10-8808-10

PAN FWA0594SA

CC: John Osborn, FIT-RPO, USEPA, Region X

A preliminary EPA Hazard Ranking System (HRS) score was computed for the American Tar Company Site based on data reviewed during the Site Inspection. As indicated in the attached table and score sheets, a preliminary hazard migration mode score of 17.68 was calculated based on known information and, when necessary, professional assumptions.

The score would increase to 38 if an observed release to groundwater could be documented. The probability of documenting a groundwater release is presumed low, however, because of the nature of the wastes at the site and the properties of the aquifer.

Aside from the risk of direct exposure, there does not appear to be any additional HRS II concerns to warrant scoring the site at a later date.

TC:csr

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SUMMARY OF EPA HAZARD RANKING SYSTEM (HRS) INFORMATION AVAILABLE AND REQUIRED

Rating Factor	Preliminary HRS Data	HRS Value	References 2. Comm	nents
Ground Water Route Characteristics Observed Release (yes/no)				
Aquifer Depth	25-50 feet	2	WDOE Well Logs	
Net Precipitation	-10"	0	HRS User's Manual	
Vadose Zone Permeability	Sandy Alluvium	2	Site Visit	
Physical State of Waste	Unstabilized solid	1 1	Assumption	
Containment	None	3	Assumption	
Ground Water Use	Only source	3	Washington Public Water Supply Listing	
Distance to Nearest Well	~ 0.8 miles	3	Washington Public Water Supply Listing	
Population Served	> 100,000	5	Washington Public Water Supply Listing	
Surface Water Route Characteristics				
Observed Release (yes/ <u>no</u>)	No surface water s	core - was	tes buried and in solid form.	
Facility Slope	⟨3%	0	Site Visit	
Intervening Terrain Slope	<3%	0	Site Visit	
1-Year 24-Hour Rainfall	1.5"	1	HRS	
Distance to Nearest Water	0.05 miles	3	Site Visit	
Physical State of Waste	Unstabiliz∍d solid	1 1	Assumption	
Containment	Buried	0	Site Visit	
Surface Water Use	Recreational	2	Washington Public Water Supply Listing	
Distance to Sensitive Environment	1-2 miles	0	Dept. of Fish & Wildlife-Wetlands Inventory	and the second
Population Served	0	0	Washington Public Water Supply Listing	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
Distance to SW Intake	>3 miles	0	N/A	12.
Air Route Characteristics				0 (1)
Observed Release (yes/ <u>mo</u>)	No air route consi	.dered - was	stes buried, if any.	7
Waste Reactivity/Incompatibility Population Within Four-Mile Radius Land Use			····	
Maste Characteristics	Coal tar is compos	ed of poly	cyclic organic compounds - high toxicity and persistance.	G T
Toxicity	Maximum	3		171
Persistence	Maximum	3		
Quantity	Unknown	1		
igration Hazard Mode Score (Sm)		17.68		

^{1.} Uses known/documented values, as indicated by the listed references.

^{2.} See References following Section 4.0 in the Field Operations Work Plan.

^{3.} Potential methods of acquiring missing HRS data within budget and schedule limitations of a typical Screening Site Inspection. For those data gaps requiring sampling, the reader is referred to Sections 3.0 and 4.0 of the Field Operations Work Plan.

Facility name:	Amorica	Tar Dr		
Location:	20.400	NA		
EPA Region:	, 			
Person(s) in charge	of the facility:	INACTIVE	FACILITY	
Name of Reviewer	T. Collian	n (E&E)	Date: 10/6/8	8
General description (For example: land facility: contaminat	n of the facility: dill, surface impour ion route of major	ndment, pile, container; concern; types of infor	types of hazardous substances: mation needed for rating; agency	location of the action, etc.)
Sita	(s Ar	2 10 1111	of forms	7 1
· Property	1,100	18pm = . 30	cool ton m	or on the state
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	Scotte	17.68		- 2
Scores: S _M =	(A)N	P = 0BS. FF.	ENSE TO ENJ TOU	Score : 36
S _{FE} =		á		
200 -				

HRS COVER SHEET

	_		Ground Wat	er Roule Work She	P1			
		Rating Factor		es Value la Graj	Mutte Silet	Score	Max. Score	Pet. Sections
No sampling done	<u></u>	Observed Release	•	45	1		45	3.1
		if observed release is given if observed release is on						
Most while 250 door	0	Route Characteristics Depth to Aquifer of Concern	٠ ن		2	4	6	1.2
		Net Precipitation Permeability of the Unsaturated Zone	0 1 3	1 1 D 1	1	02	3	
3 At one sand -apart from source Pine Al winn Coal Tax = washing in solid		Physical State	0 Ú	2 3	1		3	
10 10 10 10 10 10 10 10 10 10 10 10 10 1	├		Total Route C	haracteristics Score		7	15	
No contained]	Containment	0 1 3	3	1	3	3	1.3
Assor PAH congr. in Tar Highly SERI-ANT, Highly Toxic	<u> </u>	Waste Characteristics Toxicity/Persistence Hazarcous Waste Quantity	0 3 0 0 0	8 9 12 15 (8) 2 3 4 5 6 7	1 6 1	12	18	3.4
- UNKOON								
			Total Waste C	haracteristics Score		19	26	
Die Bonce with a Capital and	•	Targets Ground Water Use Distance to Nearest Weil-Population Served	0 1 2 4 12 16 24 30	2 (3) 6 8 10 18 22 32 (5) 40	3	35	9	3.5
Hell system soves 100,000								,
			Total T	argets Score		144	19	
	100	If time [1] is 45, multiplier if time [1] is 0, multiplier	(9 • • 9		17,55	57 130	
		Civide line (i) by 57.3	d vicilium cha CS	A 100	\$;*	. 3	30.	6

GROUND WATER ROUTE WORK SHEET

No suitage water route -Waste raterial is buried, if any

		10012 1	. 5. 1	1.		ئد ۽			4 / 1 1	ت
		\$u	riace V	Valer	Poute	Work Sh	eet			
	Rating Factor			rcie (Value Ones		Yum-	Score	Max. Score	Ref. (Section)
1	Coserved Release		0		45		1		45	4.1
	If observed release	-								
2	Route Characterist Facility Slope an Terrain		0 +	2 :	3		1		3	4.2
	1-yr. 24-hr. Raint Distance to Near		0 1 0 1	2 :	3		1 2		3 6	
	Water Physical State		0 1	2 :	3		1		3	
		Total	Route	Chara	ctenst	cs Score			15	
3	Containment		0 1	2 :	3		1		3	4.3
4	Waste Characterist Toxicity/Persists Hazardous Waste Quantity	ence	0 3) 12 1! } 4 !	3 18 i 6 7	1 8 1:		18	4.4
		Total	Waste	Char	icterist	es Scare	•		25	
3	Targets Surface Water U Distance to a Se		0	1 3	2 3		3 2		9	4.5
	Population Serve to Water Intake Downstream		0 12 12 24 3		10	10	1		40	
			Total	Targe	115 520	r e			:5	
3		multiply 🚺 z			: 🖹				54 350	
	Divide line 🖹 5	v 64,350 and m	vitiply	CV 10	0		554 -	0		

SURFACE WATER ROUTE WORK SHEET

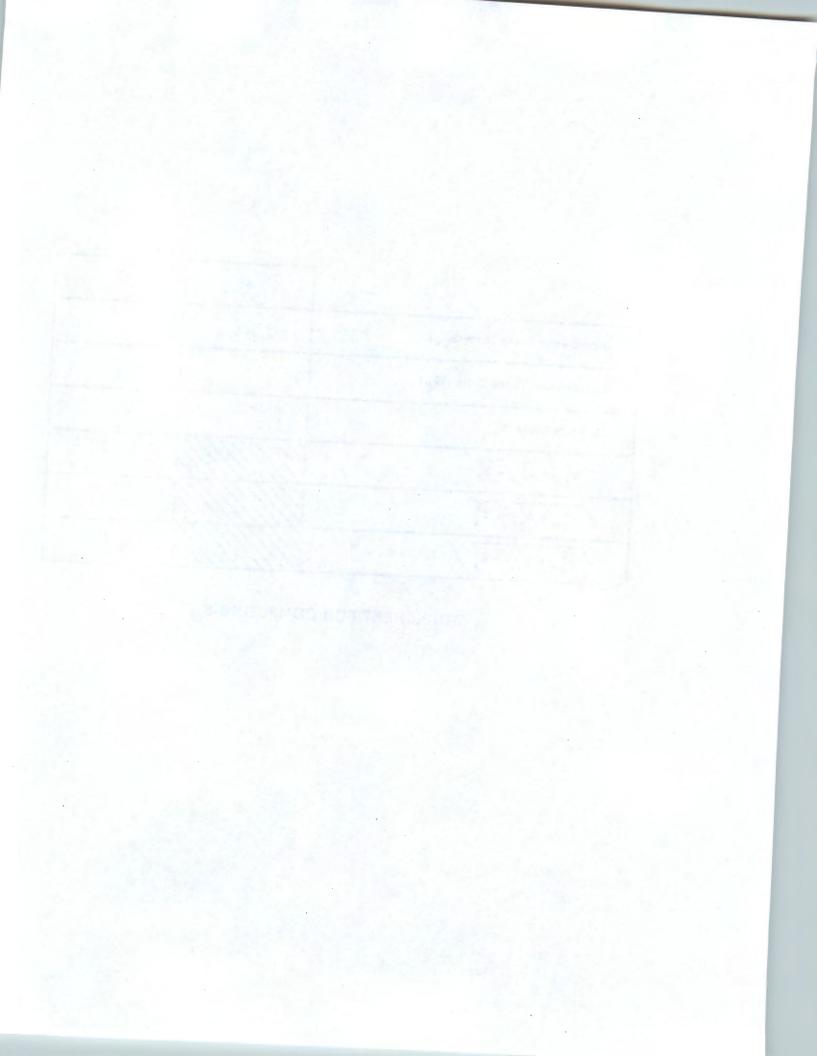
No Air route possible, waste buried, if any

_			Work Sheet			,
	Rating Factor	Assigned		Multi-	Score Score	Ref.
1	Observed Release	0	45	1	45	5.1
	Date and Location:					
	Samoling Protocol:					
		0. Enter on line (ឮ.			
21	Waste Characteristics Reactivity and Incompatibility	0 1 2	3	1	3	5.2
	Toxicity Hazardous Waste Quantity	0 1 2	3 3 4 5 6 7	8 1	1 6	
3	Targets	Total Waste Char			30	5.3
	Population Within 4-Mile Radius Distance to Sensitive	0 9 12 1 21 24 27 3 0 1 2	3	1 2	30 6	
	Environment			1	3	
	Land Use	0 1 2	3	'		
		0 1 2	3	·		
		0 1 2		·	29	
=		Total Tarç			29	

AIR ROUTE WORK SHEET

•	s	s ² .
Groundwater Route Score (Sgw)	30.6	
Surface Water Route Score (S _{SW})		0
Air Route Score (Sa)		0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		-
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		30.6
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 - s_M -$		17.68

Worksheet for computing $s_{\mathbf{M}}$



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SEPA	POTENTIAL	HAZARDOUS WA			RE	O WA	198/2	662
File this form in the regional Ha System; Hazardous Waste Enforce	zardous Waste L	og File and submit ce (EN-335); 401 M	a copy to: U.	S. Environ	mental Pr	otection Ag	ency; Site	Trackin
		I. SITE IDENT	IFICATION					
A. SITE NAME HMERICAN TAN	c Compa	MAA	B. STREET	1 111 E	TIE	Stree	t	
C. CLTY D. STATE			D. STATE			E. ZIP CODE		
SIJUP ANE		II. TENTATIVE	DISPOSITION			1 40	VOX	
Indicate the recommended action	(s) and agency(i	es) that should be	involved by ma	arking 'X'	n the app			
R	ECOMMENDATION			MARK'X'	EPA	STATE	LOCAL	PRIVA
A. NO ACTION NEEDED NO HAZARD								
B. INVESTIGATIVE ACTION(S) NEEDED (If yes, complete Section III.)				X				
C. REMEDIAL ACTION NEEDED ()	f yes, complete Se	ction IV.)		1				
ENFORCEMENT ACTION NEED D. be primarily managed by the EPA is anticipated.)	ED (if yes, specify or the State and w	y in Part E whether to what type of enforcem	he case will sent action					
F. INDICATE THE ESTIMATED DA	TE OF FINAL DIS	Inhertal DE PA. SPOSITION	G. IF A CASE	DEVELOP	MENT PL	HS R	SARY, IND	ICATE T
(1111) (11)			(mo, day, &	D DATE ON	WHICH T	HE PLAN WI	LL SE DE	VELOPE
H. PREPARER INFORMATION 1. NAME DUSOVUL	- Froo	2	2. TELEPHO	NE NUMBER	22	3.00	TE (mo., da	(y, & yr.)
A. IDENTIFY ADDITIONAL INFORM	III.	INVESTIGATIVE	ACTIVITY NE	EDED		(a
B. PROPOSED INVESTIGATIVE AC	TIVITY (Detailed	Information)					•	
1. METHOD FOR OBTAINING	2. SCHEDULED DATE OF ACTION	3. TO BE PERFORMED BY (EPA, Con-	4. ESTIMATED					
NEEDED ADDITIONAL INFO.	(mo,day, & yr)	tractor, State, etc.)	MANHOURS	-		5. REMARK	5	
(1)								
(2)							-	
(3)				-		-		-
b. TYPE OF MONITORING	-			-				
(1)								
(2)					-			
c. TYPE OF SAMPLING				-				
			-		-			

EPA Form T2070-4 (10-79)

HW-113

Richard Brown North 111 Erie Street Spokane, Washington 99202

Dear Mr. Brown:

The Environmental Protection Agency (EPA), through its contractor Ecology and Environment (E&E), has completed the preliminary assessment (PA) reports compiled for the former Spokane Gas Manufacturing and the former American Tar Company sites in Spokane, Washington. Copies of the reports are enclosed. These reports are being sent to you since you are the owner of the former gas manufacturing property and you currently operate on the former American Tar site. I am also providing a copy of the PA for the former American Tar property to the current property owner, Burlington Northern, as well as the past property owner/operator, American Tar.

Based on these PAs, further investigation is recommended at the American Tar site. The outcome of such investigation will be evaluated by EPA before conducting any further activity at the former Spokane Gas Manufacturing site. These recommendations are outlined in each report on page six.

A site inspection has not yet been scheduled. EPA will work with you and Burlington Northern to schedule further investigation. If you have any questions, please telephone me at (206) 442-2722.

Sincerely.

Deborah Flood Environmental Protection Specialist Superfund Program

Enclosure

cc: Walter D. Farrel, Burlington Northern, Spokane Emily Ray, Washington Department of Ecology, Olympia Sherman Spencer, Ecology, Eastern Region David Distler, American Tar Company

M.Anderson P.C. 0935P 7/24/87